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FIGURE 1

GGCGTCCGCGCACACCTCCCCGCGCCGCGCCGCCACCGCCCGCACTCCGCGCGCTCTGCCCCGCAACCGCT
GAGCCATCCATGGGGGTGCGGGGCGGCAACCGTCCCGGGGCGGCGCTGGGCGGTGCTGCTGCTGCTGCTGCT
GCTGCCGCGCACTGCTGCTGCTGGCGGGGGCGTCCCGCGGGTGGGGCGGTGCGCGGGGCGGCGAGGAGG
ATGTAGATGAGTGTGCCAAGGGCTAGATGACTGCCATGCCGACGCCCTGTGTGAGAACACACCCACCTCC
TACAAGTGCTCCTGCAAGCCTGGCTACCAAGGGGAAGGCAGGCAGTGTGAGGACATCGATGAATGTGGAAA
TGAGCTCAATGGAGGCTGTGTCCATGACTGTTTGAATATTCCAGGCAATTATCGTTGCACTTGTTTTGATG
GCTTCATGTTGGCTCATGACGGTCATAATTGTCTTGATGTGGACGAGTGCCTGGGAGAACAATGGCGGCTGC
CAGCATACCTGTGTCAACGTATGGGGAGCTATGAGTGTGCTGCAAGGAGGGGTTTTCTCTGAGTGACAA
TCAGCACACCTGCATTACCGCTCGGAAGAGGGCTGAGCTGCATGAATAAGGATCACGGCTGTAGTCACA
TCTGCAAGGAGGCCCCAAGGGGAGCGTGCCTGTGAGTGCAGGCCTGGTTTTGAGCTGGCCAAGAACCCAG
AGAGACTGCATCTTGACCTGTAACCATGGGAACGGTGGGTGCCAGCACTCCTGTGACGATACAGCCGATGG
CCCAGAGTGCAGCTGCCATCCACAGTACAAGATGCACACAGATGGGAGGAGCTGCCTTGAGCGAGAGGACA
CTGTCTGGAGGTGACAGAGAGCAACACCACATCAGTGGTGGATGGGGATAAACCGGTGAAACGGCGGCTG
CTCATGGAACGTGTGCTGTCAACAATGGAGGCTGTGACCGCACCTGTAAGGATACTTCGACAGGTGTCCA
CTGCAGTTGCTGTTGGATTCACTCTCCAGTTGGATGGGAAGACATGTAAAGATATTGATGAGTGGCAGA
CCCCGAATGGAGGTGTGATCATTTCTGCAAAAACATCGTGGGCAGTTTTGACTGCGGCTGCAAGAAAGGA
TTTAAATTATTAACAGATGAGAAGTCTTGCCAAGATGTGGATGAGTGTCTTTGGATAGGACCTGTGACCA
CAGCTGCATCAACCACCCTGGCACATTTGCTTGTGCTTGCAACCGAGGGTACACCCTGTATGGCTTCACCC
ACTGTGGAGACACCAATGAGTGCAGCATCAACAACGGAGGCTGTGAGCAGGTCTGTGTGAACACAGTGGGC
AGCTATGAATGCCAGTGGCACCCCTGGGTACAAGCTCCACTGGAATAAAAAAGACTGTGTGGAAGTGAAGGG
GCTCCTGCCACAAGTGTGTACCCCGTGTGTCCCTGCACTGCGGTAAGAGTGGTGGAGGAGACGGGTGCT
TCCTCAGATGTCACTCTGGCATTCACCTCTCTTCAGATGTCAACCACCATCAGGACAAGTGTAACTTTAAG
CTAAATGAAGGCAAGTGTAGTTTGAAAAATGCTGAGCTGTTTCCCGAGGGTCTGCGACCAGCACTACCAGA
GAAGCACAGCTCAGTAAAAGAGAGCTTCCGCTACGTAAACCTTACATGCAGCTCTGGCAAGCAAGTCCCAG
GAGCCCCCTGGCCGACCAAGCACCCCTAAGGAAATGTTTATCACTGTTGAGTTTGAGCTTGAAACTAACCAA
AAGGAGGTGACAGCTTCTTGTGACCTGAGCTGCATCGTAAAGCGAACCGAGAAGCGGCTCCGTAAAGCCAT
CCGCACGCTCAGAAAGGCCGTCCACAGGGAGCAGTTTACCTCCAGCTCTCAGGCATGAACCTCGACGTGG
CTAAAAAGCCTCCCAGAACATCTGAACGCCAGGCAGAGTCTGTGGAGTGGGCCAGGGTCTATGCAGAAAAC
CAATGTGTGAGTTGCAGGGCTGGGACCTATTATGATGGAGCACGAGAACGCTGCATTTTATGTCCAAATGG
AACCTTCCAAAATGAGGAAGGACAAATGACTTGTGAACCATGCCCAAGACCAGGAAATCTGGGGCCCTGA
AGACCCCAAGCTTGGAAATATGTCTGAATGTGGAGGTCTGTGTCAACCTGGTGAATATTCTGCAGATGGC
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CCAGTGTAAAAACAGAAGATGTGGAGGGGAGCTGGGAGATTTCACTGGGTACATTGAATCCCCAACTACC
CAGGCAATTACCCAGCCAACACCGAGTGTACGTGGACCATCAACCCACCCCAAGCGCCGCATCCTGATC
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ATCCAATTCTGTGACAACATATGAAACCTGCCAGACCTACGAACGCCCATCGCCTTCACCTCCAGGTCAA
AGAAGCTGTGGATTCAAGTCCAATGAAGGGAACAGCGCTAGAGGGTCCAGGTCCCATACGTGACA
TATGATGAGGACTACCAGGAACCTCATGAAGACATAGTTTCGAGATGGCAGGCTCTATGCATCTGAGAACCA
TCAGGAAATACTTAAGGATAAGAACTTATCAAGGCTCTGTTTGATGTCTGGCCCATCCCCAGAACTATT
TCAAGTACACAGCCCAGGAGTCCCGAGAGATGTTTCCAAGATCGTTTCATCCGATTGCTACGTTCCAAAGTG
TCCAGGTTTTTGGAGACCTTACAAATGACTCAGCCCACGTGCCACTCAATACAAATGTTCTGCTATAGGGTT
GGTGGGACAGAGCTGTCTTCTTCTGCATGTGACACAGTCCGGTATTGCTGCCTCCCGTATCAGTGACTC
ATTAGAGTTCAATTTTTATAGATAATACAGATATTTTGGTAAATTGAACCTGGTTTTTCTTTCCAGCATC
GTGGATGTAGACTGAGAAATGGCTTTGAGTGGCATCAGCTTCTCACTGCTGTGGGCGGATGTCTTGATAGA
TCACGGCTGGCTGAGCTGGACTTTGGTCAGCCTAGGTGAGACTCACCTGTCTTCTGGGGTCTTACTCCT
CCTCAAGGAGTCTGTAGTGGAAAGGAGGCCAGAGAATAAGCTGCTTATTCTGAACTTCAGCTTCTCTAG
CCCGGCCCTCTCTAAGGGAGCCCTCTGCACTCGTGTGCAGGCTCTGACCAGGCAGAACAGGCAAGAGGGGA
GGGAAGGAGACCCCTGCAGGCTCCCTCCACCCACCTTGAGACCTGGGAGGACTCAGTTTCTCCACAGCCTT
CTCCAGCCTGTGTGATACAAGTTTGATCCAGGAACCTGAGTTCTAAGCAGTGTCTGTGAAAAAAGGAGC
AGAAAGAATTAGAAATAAATAAAAACTAAGCACTTCTGGAGACAT

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FIGURE 2

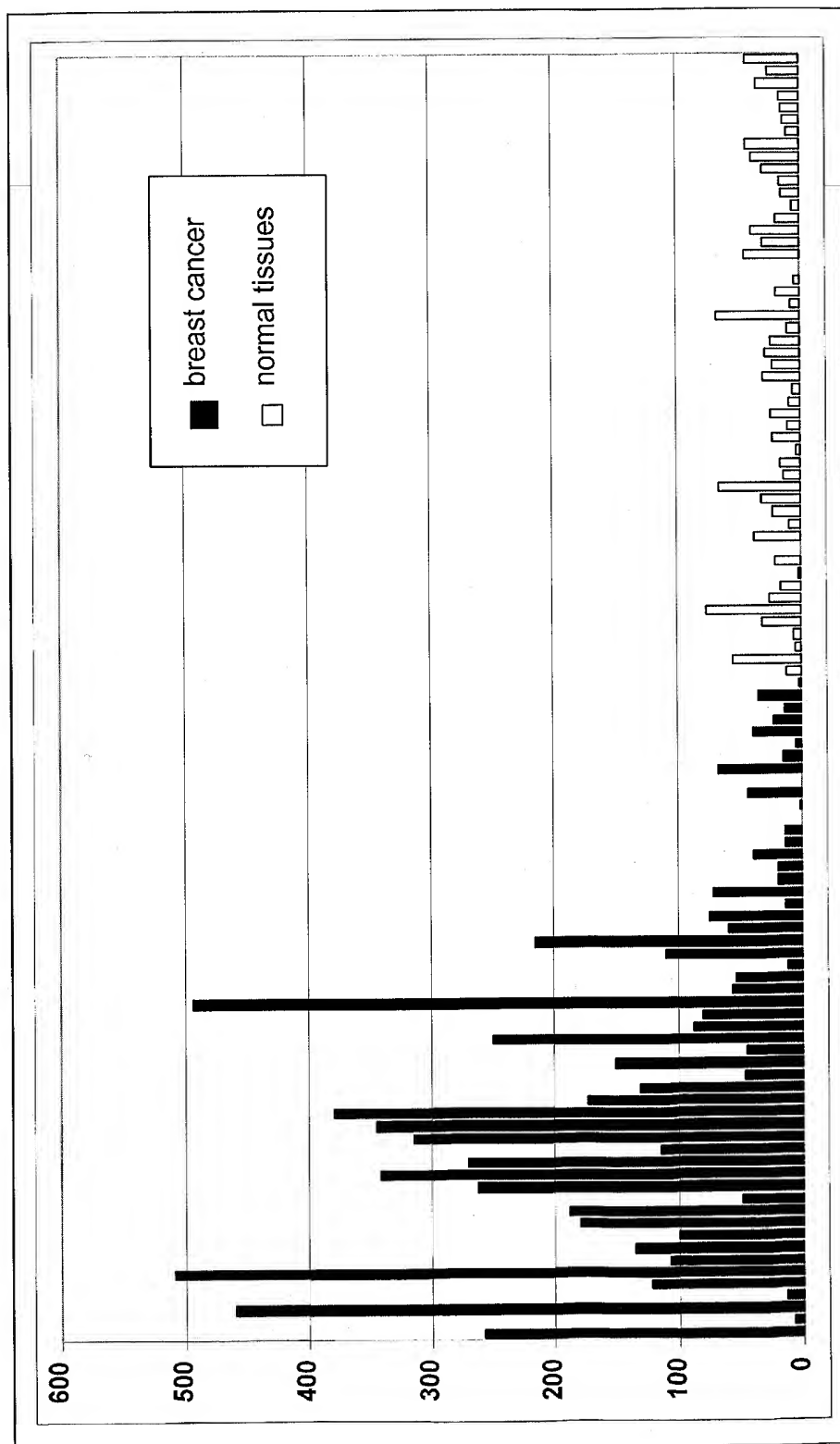
MGVAGRNRPGAAWAVLLLLLLLLPPLLLLAGAVPPGRGRAAGPQEDVDECAQGLDDCHADALCQNTPTS YKC
 SCKPGYQGEGRQCEDIDECGNE LNGGCVHDCLNIPGNYRCTCFDGFMLAHDGHNCLDVDECLENNGGCQHT
 CVNVMGSYECCCKEGFFLSDNQHTCIHRSEGLSCMNKDHGCSHICKEAPRGSVACECRPGFELAKNQDC
 ILTCNHGNGGCQHSCDDTADGPECSCHPQYKMHTDGRSCLEREDTVLEVTESENTTSVVDGDKRVKRLLME
 TCAVNNGGCDRTCKDTSTGVHCSCPVGFTLQLDGKTCKDIDECQTRNGGCDHFCKNIVGSFDCGCKKGFKL
 LTDEKSCQDVDECSLDRTCDHSCINHPGTFAACNRGYTLYGFTHCGDTNECSINNGCQQVCVNTVGSYE
 CQCHPGYKLHWNKKDCVEVKGLLPTSVSPRVSLHCGKSGGGDGCFLRCHSGIHLSSDVTTIRTSVTFKLE
 GKCSLKNAELFPEGLRPALPEKHSSVKESFRYVNLTCSGKQVPGAPGRPSTPKEMFITVEFELETNQKEV
 TASCDLSCIIVKRTEKRLRKAIRTLRKAVHREQFHLQLSGMNLDAKKPPRTSERQAESCQVGGQGHAEHQCV
 SCRAGTYD GARERCILCPNGTFQNEEQMTCEPCPRPGNSGALKTPEAWNMSECGGLCQPGEYSADGFAP
 CQCALGTFQPEAGRTSCFPCGGGLATKHQGATSFQDCETRVCSPGHFYNTTTHRCIRCPVGTYPQPEFGK
 NNCVSCPGNTTTFDGDSTNITQCKNRRCGGELGDFGTGYIESPNYPGNYPANTECTWTINPPPKRRLIVVP
 EIFLPIEDDCGDYLVMRKTSSNSVTTYETCQTYERPIAFTSRSKKLWIQFKSNEGNSARGFQVPYVTYDE
 DYQELIEDIVRDGRLYASENHQEILKDKKLIKALFDVLAHPQNYFKYTAQESREMFPRSFIRLLRSKVS RF
 LRPYK

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FIGURE 3



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BCO2_human
BCO2_mouse

IQFKSNEGNSARGFQVPVYTYDEDYQELIEDIVRDGRLYASENHQEILKDKKLIKALFDV
IQFKSNEGNSARGFQVPVYTYDEDYQELIEDIVRDGRLYASENHQEILKDKKLIKALFDV

BCO2_human
BCO2_mouse

LAHPQNYFKYTAQESREMFPRSFIRLLRSKVSRLFRLPYK
LAHPQNYFKYTAQESREMFPRSFIRLLRSKVSRLFRLPYK

FIGURE 4B

[illegible]